CELERY VARIETY TRIALS - 1965

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

MUCK CROPS BRANCH, CELERYVILLE, OHIO

WALTER N. BROWN

EDWARD POSTEMA

DEPARTMENT OF HORTICULTURE

Ohio Agricultural Research and Development Center
Wooster, Ohio

Horticulture Mimeograph Series No. 322, January 18, 1966

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Muck Crops Branch, Celeryville, Ohio

Department of Horticulture Mimeograph Series No.322
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CELERY VARIETY TRIALS - 1965

Walter N. Brown[1] and Edward Postema[2]

Twenty varieties or strains of varieties were compared in replicated trials at two planting dates: Results of the planting for early August harvest are given in Table 1, and those of the planting for early September harvest are given in Table 2.

CULTURAL INFORMATION

Seed Sown: Early Harvest - March 25, seedlings transplanted to greenhouse benches during April 23 and plants set in field on May 20, 1965.
Late Harvest - April 26, seedlings transplanted to greenhouse bench on May 22 and plants set in field on June 16, 1965.

Fertilizer: 1000 lbs/A of 0-20-0 plowed down early in spring. One sidedressing of 100 lb/A ammonium nitrate was applied on June 17 and another on July 1 for the early planting. The Late planting was sidedressed only one time on July 1, 1965.

Spacing: Paired rows 32" apart were used with 40" between paired rows for better equipment clearance. Plants were spaced approximately 6.5" in the row with 41 plants per 23' plot, 41 plants for record. Each single row plot replicated six times in each planting.

Pesticides: Maneb was used in each application with either Malathion or Diazinon as needed in sprays at weekly intervals.

Growing Conditions: Temperatures throughout the growing period were below normal but near ideal for celery. Rainfall, however, during May and July were below normal with August considerably above normal. In general, the rainfall was less than desired, particularly for the late planting and water for irrigation was unavailable during September.

Mean temperatures and rainfall during the growing period for each planting:

Early Planting	Mean Temperature	Total Precipitation	Late Planting	Mean Temperature	Total Precipitation
May 1-20	66.4°	0.31"	June 16-30	69.2°	0.7""
June	67.3°	2.59"	July	69.5°	1.64"
July	69.5°	1.64"	August	68.7°	5.16"
August 1-17	70.8°	2.61"	September 1-7	66.7°	3.10"

Dates of Harvest: Early Planting - August 17. Late Planting first three replications September 7 and last three September 23, 1965.

1. Dept. of Horticulture, Ohio Agric. Res. & Development Center, 1827 Neil Ave., Columbus, Ohio 43210
2. Muck Crop Branch, OARDC, Celeryville, Ohio

SOURCES OF SEED

Code	Source
A1	Abbott & Cobb, 4744-46 Frankfort Ave., Philadelphia 24, Pa.
E1	Eastern States Farmers Exchange, 26 Central St., West Springfield, Mass.
F1	Ferry-Morse Seed Co., P. O. Box 254, Racine, Wisconsin
H1	Joseph Harris Co., Inc., Moreton Farm, Rochester, N.Y., 14624
H2	Holmes Seed Co., 2125 46th St., N.W., Canton, Ohio 44709
L2	Letherman Seed Co., 501 McKinley Avenue, N.W., Canton, Ohio 44702
S2	Seigers, through Holmes Seed Co.

TABLE 1. CELERY VARIETIES FOR EARLY HARVEST, 1965
Celeryville, Ohio

(6 Replications)

Variety, Lot Number and Source	Av. Wt. per Large Stalk	YIELD PER PLOT[1]			Pet. ct. 4" above Butt	Pet. Lngth. Butt-1 node	Pet. Lgth. Over-all	Trim Loss	Remarks
		Large Stalks	Small Stalks	Market-ables					
	lbs.	lbs.	lbs.	lbs.		ins.	ins.	%	
17. Florida 683 1526C L-2	2.8	108.2	.2	108.4	9.5	7.7	18.5	23.1	
7. Improved 52-70 13 A-1	2.7	104.0	.6	104.6	8.8	8.8	20.1	26.8	
19. Utah Pascal 378-2 S-6	2.7	103.5	.4	103.9	10.5	7.7	20.5	32.2	
15. Utah 52-70 2031 H-2	2.7	102.6	1.8	104.4	10.0	8.7	21.0	33.2	
18. Tall Pascal D-5 1256H L-2	2.6	101.4	.4	101.8	7.7	8.5	19.7	24.2	
14. Florida 2-13 568 H-1	2.6	101.0	.5	101.5	10.4	9.1	20.5	30.1	
11. Utah 52-70 557 H-1	2.7	100.6	.9	101.5	8.4	8.8	21.2	31.9	
1. Delmar 17613 L-2	2.5	99.6	--	99.6	10.5	8.3	20.3	28.5	
3. Greenlight Tall Strain 552 H-1	2.6	98.7	1.1	99.8	11.5	8.1	18.1	29.9	
5. Utah 52-70H 1526A L-2	2.6	98.5	.9	99.4	9.5	8.7	20.8	31.5	
LSD @ 5% Level		15.0		11.7					

1. Yield per plot of 23 feet. To convert to 60 lb. crates/A, multiply by 9.71.

TABLE 1. Cont. CELERY VARIETIES FOR EARLY HARVEST 1965
Celeryville, Ohio

(6 Replications)

Variety, Lot Number and Source	Av. Wt. Per Large Stalk	YIELD PER PLOT[1]			Pet. count 4 in. abv. Butt	Pet. Lght. Butt-1st node	Lnght Over-All	Trim Loss	Remarks
		Large Stalks	Small Stalks	Market-able					
	lbs.	lbs.	lbs.	lbs.		in.	in.	%	
6. Tri-Cross 721 A-1	2.6	98.5	1.0	99.5	8.4	8.7	20.0	30.8	
2. Greenlight Tall N.C. 567 H-1	2.5	97.0	.3	97.3	11.2	8.5	18.1	25.2	
4. Utah 52-70 1762 L-2	2.5	96.0	.3	96.3	9.4	8.6	18.7	32.5	
12. Campoc 1 12506 F-1	2.2	85.7	.4	86.1	7.7	8.9	20.8	36.2	
9. Florida 2-13C2 T-63 Florida	2.4	85.4	1.4	86.8	7.9	8.5	20.1	31.1	
16. Emerald 0528 F-1	2.2	85.4	.3	85.7	10.1	7.6	16.9	32.2	
8. Florida 2-134 T-63 Florida	2.1	80.4	2.0	82.4	9.0	8.8	20.2	33.5	
13. Campoc 2 12507 F-1	2.1	79.4	1.3	80.7	7.6	9.3	20.0	38.7	
20. Tall Fordhook (V-528) 38177 E-1	2.1	76.1	1.2	77.3	7.3	8.2	17.6	38.3	
10. Florida 4-5 T-63 Florida	2.1	72.1	25.3	97.4	7.1	8.3	18.9	34.7	
LSD @ 5% Level		15.0		11.7					

1. Yield per plot of 23 feet. To convert to 60 lb. crates/A, multiply by 9.71

TABLE 2. CELERY VARIETIES FOR LATE HARVEST, 1965
Celeryville, Ohio

(6 Replications)

Variety, Lot Number and Source	Average Wt. per Large Stalk	YIELD PER PLOT[1]			Pet. ct. 4" above Butt	Pet. Lngth. Butt-1 node	Pet. Lngth. Over-All	Trim Loss	Remarks
		Large Stalks	Small Stalks	Marketables					
	lbs.	lbs.	lbs.	lbs.		in.	in.	%	
1. Delmar 176B L-2	2.7	105.7	.1	105.7	13.0	9.0	20.2	35.4	
17. Florida 683 1526C L-2	2.9	101.9	3.6	105.5	13.3	8.5	19.1	32.4	
5. Utah 52-70H 1526A L-2	2.6	98.7	1.3	100.0	12.3	8.7	19.9	35.8	
15. Utah 52-70 2031 H-2	2.5	97.8	.5	98.3	13.5	9.1	20.3	35.2	
7. Improved 52-70 13 A-1	2.5	96.8	.7	97.5	10.7	8.7	19.7	34.9	
2. Greenlight Tall NC 567 H-1	2.6	95.0	1.9	96.9	14.5	9.4	19.4	33.9	
3. Greenlight Tall Strain 552 H-1	2.5	94.7	1.2	95.9	15.6	8.6	18.7	35.6	
9. Florida 2-13C2 T-63 Florida	2.4	94.5	1.7	96.2	10.4	8.7	19.4	38.1	
6. Tri Cross 721 A-1	2.5	94.1	2.2	96.3	10.6	9.0	19.1	38.5	
8. Florida 2-134 T-63 Florida	2.5	93.7	1.9	95.6	12.0	9.1	20.7	37.7	
LSD @ 5% Level		9.9		9.5					

1. Yield per plot of 23 feet. To convert to 60 lb. crates/A, multiply by 9.71.

TABLE 2 Cont. CELERY VARIETIES FOR LATE HARVEST, 1965
Celeryville, Ohio

(6 Replications)

Variety, Lot Number and Source	Av. Wt. per Large Stalk	YIELD PER PLOT[1]			Pct. ct. 4" above Butt	Pet. Lngth Butt-1 node	Pet. Lngth Over-All	Trim Loss	Remarks
		Large Stalks	Small Stalks	Market-ables					
	lbs.	lbs.	lbs.	lbs.		in.	in.	%	
18. Tall Pascal D-5 1256H L-2	2.5	93.6	2.5	96.1	8.9	9.2	19.7	33.1	
4. Utah 52-70 1762 L-2	2.4	93.5	2.0	95.5	12.2	8.7	19.5	37.9	
14. Florida 2-13 568 H-1	2.4	91.5	1.4	92.9	12.9	9.6	21.4	40.9	
19. Utah Pascal 378-2 S-6	2.4	89.6	1.5	91.1	13.7	8.2	19.9	40.8	
11. Utah 52-70 557 H-1	2.4	88.8	2.5	91.3	12.0	8.6	20.0	40.1	
12. Campoc 1 12506 F-1	2.2	76.8	5.4	82.2	8.9	9.1	21.1	49.4	
10. Florida 4-5 T-63 Florida	2.0	75.0	2.1	77.1	9.8	8.8	19.1	39.7	
20. Tall Fordhook (V-528) 38177 E-1	2.0	73.0	2.9	75.9	8.0	8.8	18.7	47.8	
16. Emerald 0528 F-1	2.2	67.2	3.5	70.7	10.7	20.3	20.6	46.9	
13. Campoc 2 12507 F-1	2.1	65.8	5.1	70.7	8.8	9.5	21.2	51.8	
LSD @ 5% Level		9.9		9.5					

1. Yield per plot of 23 feet. To convert to 60 lb. crates/A, multiply by 9.71.

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